

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P253378

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3870.1 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

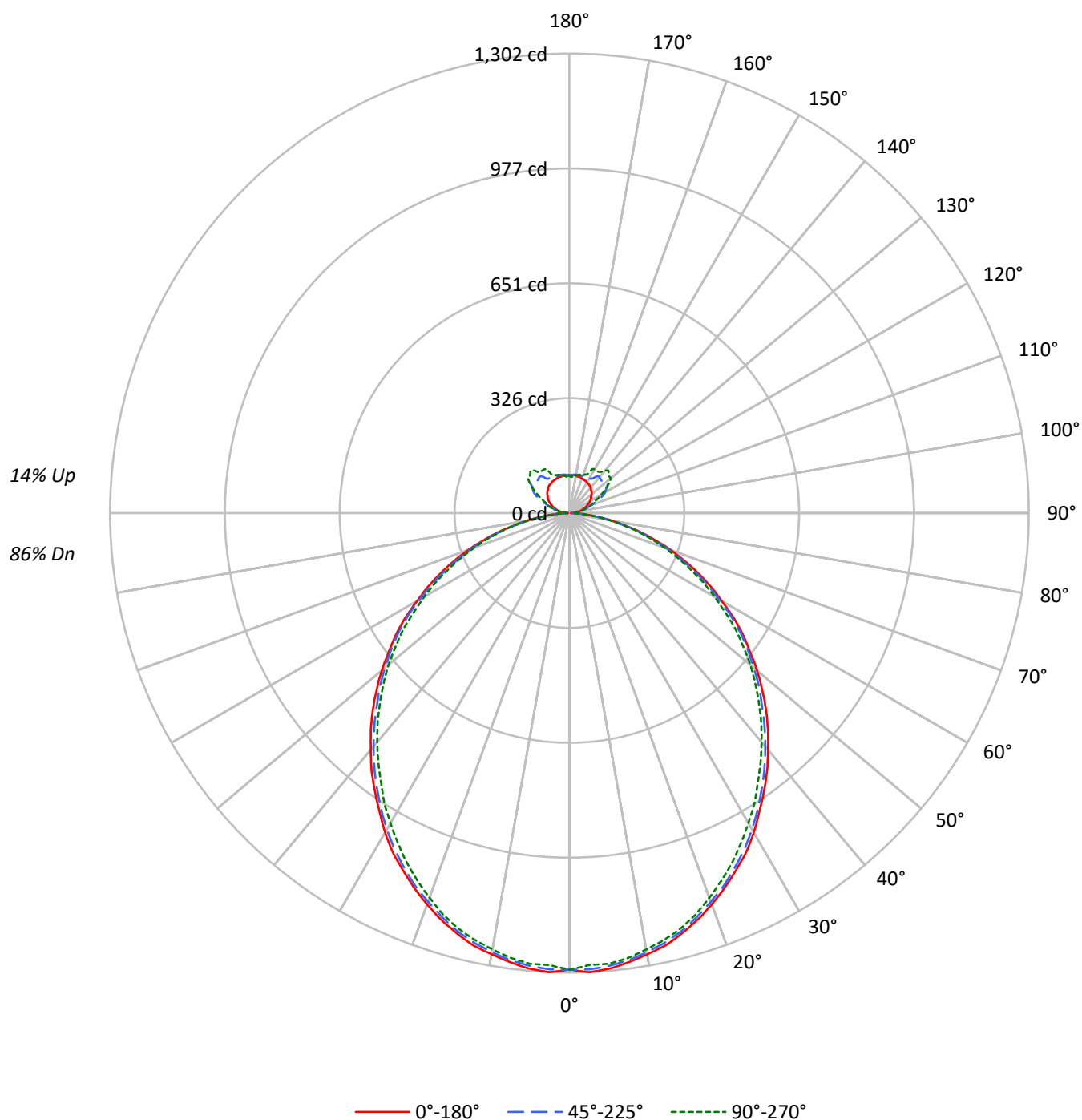
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104		96	96	96		90
1	106	101	97	94	102	98	94	91	91	88	85		85	83	80		79
2	97	89	82	77	93	86	80	75	80	75	71		75	71	67		70
3	88	78	70	64	85	75	68	62	71	65	60		66	61	57		62
4	81	69	61	54	77	67	59	53	63	56	51		59	53	49		55
5	74	62	53	47	71	60	52	46	56	49	44		53	47	42		50
6	69	56	47	41	66	54	46	40	51	44	39		48	42	37		45
7	64	51	42	36	61	49	41	36	46	39	34		44	38	33		41
8	59	46	38	32	57	45	37	32	42	36	31		40	34	30		38
9	55	42	34	29	53	41	34	29	39	32	28		37	31	27		35
10	52	39	31	26	50	38	31	26	36	30	25		34	29	24		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10448	10448	10448
5°	10505	10438	10389
10°	10408	10358	10291
15°	10305	10254	10186
20°	10137	10066	9961
25°	9946	9874	9728
30°	9743	9648	9458
35°	9476	9375	9174
40°	9229	9100	8928
45°	8996	8809	8670
50°	8717	8563	8410
55°	8448	8332	8103
60°	8042	7910	7679
65°	7683	7486	7253
70°	7180	6987	6746
75°	6494	6366	6176
80°	5504	5411	5314
85°	4159	4353	4159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	3.2
10°-20°	344.4	8.9
20°-30°	508.0	13.1
30°-40°	592.1	15.3
40°-50°	595.4	15.4
50°-60°	524.3	13.5
60°-70°	387.0	10.0
70°-80°	214.4	5.5
80°-90°	55.8	1.4
90°-100°	19.8	0.5
100°-110°	51.2	1.3
110°-120°	83.1	2.1
120°-130°	103.8	2.7
130°-140°	97.5	2.5
140°-150°	76.9	2.0
150°-160°	53.0	1.4
160°-170°	31.2	0.8
170°-180°	10.3	0.3
0°-30°	974.4	25.2
0°-40°	1566.5	40.5
0°-60°	2686.2	69.4
0°-90°	3343.4	86.4
90°-120°	154.1	4.0
90°-150°	432.2	11.2
90°-180°	527.0	13.6
0°-180°	3870.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1296	1282	1288	1284	1282	123
15°	1233	1221	1227	1221	1219	347
25°	1117	1106	1108	1094	1092	515
35°	962	953	951	935	931	602
45°	788	780	772	761	759	607
55°	600	594	592	580	576	535
65°	402	398	392	384	380	398
75°	208	206	204	198	198	220
85°	45	47	47	45	45	52
90°	4	8	8	8	8	5
95°	14	16	18	18	18	15
105°	39	53	47	51	47	41
115°	57	92	94	82	80	57
125°	76	104	129	133	131	67
135°	88	98	129	159	157	68
145°	98	102	122	141	143	61
155°	102	106	112	120	120	47
165°	106	106	112	114	112	30
175°	108	108	108	108	104	10
180°	106	106	106	106	106	



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CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1302.4	1288.1	1294.2	1290.1	1282.0
5°	1296.3	1282.0	1288.1	1284.0	1282.0
7.5°	1284.0	1271.8	1277.9	1273.8	1271.8
10°	1269.7	1257.5	1263.6	1257.5	1255.4
12.5°	1255.4	1241.2	1247.3	1239.1	1239.1
15°	1233.0	1220.7	1226.9	1220.7	1218.7
17.5°	1208.5	1196.2	1200.3	1194.2	1192.2
20°	1179.9	1167.7	1171.7	1163.6	1159.5
22.5°	1149.3	1139.1	1143.2	1128.9	1126.8
25°	1116.6	1106.4	1108.5	1094.2	1092.1
27.5°	1084.0	1069.7	1073.8	1057.4	1053.3
30°	1045.2	1032.9	1035.0	1018.6	1014.6
32.5°	1002.3	994.1	994.1	977.8	975.8
35°	961.5	953.3	951.3	934.9	930.9
37.5°	920.7	910.5	908.4	890.0	890.0
40°	875.7	867.6	863.5	849.2	847.2
42.5°	832.9	822.7	818.6	804.3	804.3
45°	788.0	779.8	771.6	761.4	759.4
47.5°	741.0	732.9	728.8	716.5	714.5
50°	694.1	687.9	681.8	671.6	669.6
52.5°	645.1	641.0	636.9	626.7	620.6
55°	600.2	594.0	592.0	579.8	575.7
57.5°	551.2	545.0	543.0	528.7	522.6
60°	498.1	492.0	489.9	477.7	475.6
62.5°	451.1	445.0	440.9	432.8	428.7
65°	402.2	398.1	391.9	383.8	379.7
67.5°	353.2	349.1	343.0	336.8	332.7
70°	304.2	300.1	296.0	287.8	285.8
72.5°	255.2	251.1	247.0	242.9	242.9
75°	208.2	206.2	204.1	198.0	198.0
77.5°	161.3	159.2	157.2	155.1	155.1
80°	118.4	118.4	116.4	114.3	114.3
82.5°	79.6	79.6	79.6	77.6	77.6
85°	44.9	47.0	47.0	44.9	44.9
87.5°	18.4	18.4	18.4	18.4	18.4
90°	4.1	8.2	8.2	8.2	8.2
92.5°	8.2	10.2	12.2	14.3	12.2
95°	14.3	16.3	18.4	18.4	18.4
97.5°	22.5	24.5	24.5	24.5	24.5
100°	28.6	32.7	30.6	32.7	30.6
102.5°	34.7	42.9	42.9	38.8	38.8
105°	38.8	53.1	47.0	51.0	47.0
107.5°	42.9	65.3	55.1	57.2	59.2
110°	49.0	73.5	67.4	61.2	63.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	89.8	79.6	71.4	69.4
115°	57.2	91.9	93.9	81.7	79.6
117.5°	63.3	91.9	106.2	95.9	91.9
120°	67.4	98.0	116.4	108.2	104.1
122.5°	71.4	102.1	122.5	122.5	118.4
125°	75.5	104.1	128.6	132.7	130.6
127.5°	77.6	98.0	138.8	144.9	142.9
130°	81.7	93.9	136.8	147.0	153.1
132.5°	85.7	95.9	132.7	149.0	153.1
135°	87.8	98.0	128.6	159.2	157.2
137.5°	89.8	100.0	130.6	153.1	163.3
140°	93.9	100.0	132.7	144.9	157.2
142.5°	95.9	102.1	132.7	138.8	147.0
145°	98.0	102.1	122.5	140.9	142.9
147.5°	98.0	104.1	114.3	142.9	142.9
150°	100.0	104.1	114.3	142.9	142.9
152.5°	102.1	106.2	112.3	124.5	140.9
155°	102.1	106.2	112.3	120.4	120.4
157.5°	104.1	106.2	112.3	118.4	118.4
160°	104.1	106.2	112.3	116.4	114.3
162.5°	106.2	106.2	110.2	114.3	112.3
165°	106.2	106.2	112.3	114.3	112.3
167.5°	106.2	108.2	110.2	112.3	110.2
170°	108.2	108.2	110.2	110.2	108.2
172.5°	108.2	108.2	110.2	108.2	106.2
175°	108.2	108.2	108.2	108.2	104.1
177.5°	108.2	106.2	108.2	106.2	102.1
180°	106.2	106.2	106.2	106.2	106.2

(END OF REPORT)